

**Automotive Technology 7<sup>th</sup> Edition**  
**Chapter 19: Engine Oil and Filters**  
**Matching Quiz**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Matching: Choose the item in column 2 that best matches each item in column 1.**

- |   |   |           |
|---|---|-----------|
| 1. Additive package                           | A. An additive in engine oil that provides anti-wear and antioxidant properties.                      | 1. _____  |
| 2. American Petroleum Institute (API)         | B. An organization that sets standards for automotive engineering, including oil viscosity grades.    | 2. _____  |
| 3. Antidrainback valve                        | C. The lowest temperature at which an oil will flow.  | 3. _____  |
| 4. Bypass valve                               | D. Engine oils formulated to address issues in older engines, such as seal leaks and oil consumption. | 4. _____  |
| 5. Miscible                                   | E. An organization that sets standards for petroleum products, including engine oil.                  | 5. _____  |
| 6. Pour point                                 | F. A measure of an oil's ability to resist changes in viscosity with changes in temperature.          | 6. _____  |
| 7. Society of Automotive Engineers (SAE)      | G. The ability of two liquids to mix together completely.   | 7. _____  |
| 8. Viscosity index (VI)                       | H. Various chemicals added to engine oil to improve its properties and performance.                   | 8. _____  |
| 9. Zinc dialkyl dithiophosphate (ZDDP or ZDP) | I. A valve in an oil filter that prevents oil from draining out of the filter when the engine is off. | 9. _____  |
| 10. High mileage oils                         | J. A valve in an oil filter that allows oil to bypass the filter if it becomes clogged.               | 10. _____ |

**Automotive Technology 7<sup>th</sup> Edition**  
**Chapter 19: Engine Oil and Filters**  
**Matching Quiz**  
**Answer Key**

**Answer Key:**

1. H
2. E
3. I
4. J
5. G
6. C
7. B
8. F
9. A
10. D